

In the claims:

1. (Currently Amended) A twelve channel electrocardiograph system comprising:
 - an acquisition element adapted to be disposed on a chest of a patient, to generate a twelve lead electrocardiograph signal and to be coupled to the patient through a set of relatively short leadwires; [[and]]
 - a hand-held, battery powered portable processing element that is physically separate from the acquisition unit, that is coupled to the acquisition element through a connector cable, that is controlled by a central processing unit through a graphical user interface, and wherein said acquisition element further comprising a digital signal processor with a plurality of programmable filters specifically adapted to filter the twelve lead electrocardiogram signal under control of the central processing unit; and
 - a windows operating system within the portable processing element that controls the acquisition element and portable processing element through the graphical user interface.
2. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises a display.
3. (Original) The electrocardiograph system as in claim 2 wherein the display further comprises a liquid crystal display.
4. (Original) The electrocardiograph system as in claim 3 wherein the liquid crystal display further comprises a

color or monochrome graphical display with sufficient resolution to display waveforms.

5. (Original) The electrocardiograph system as in claim 2 wherein the display further comprises a touch screen interface.

6. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises a compact flash card or similar memory expansion slot.

7. (Original) The electrocardiograph system as in claim 6 wherein the compact flash expansion slot further comprises a compact flash read only memory disposed in the compact flash card expansion slot.

8. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises an infrared transceiver for communications.

9. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises a radio frequency transceiver for communications.

10. (Original) The electrocardiograph system as in claim 1 wherein the processing element further comprises an audio recording unit.

11. (Original) The electrocardiograph system as in claim 1 wherein the acquisition element further comprises a plurality of signal conditioning circuits.

12. (Previously Presented) The electrocardiograph system as in claim 1 wherein the acquisition element further comprises a baseline sway filter.

13. (Previously Presented) The electrocardiograph system as in claim 1 wherein the acquisition element further comprises a pacemaker pulse detector adapted to detect pacemaker signals.

14. (Previously Presented) The electrocardiograph system as in claim 1 wherein the acquisition element further comprises analysis and interpretation.